



COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled OPTIMIZED MESSENGER RNA, the specification of which

is attached hereto.
 was filed on September 28, 1999 as Application Serial No. 09/407,605.
 was described and claimed in PCT International Application No. _____
filed on _____ and as amended under PCT Article 19 on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e)(1) of any United States provisional application(s) listed below:

U.S. SERIAL NO.	FILING DATE	STATUS
60/102,239	September 29, 1999	ABANDONED
60/130,241	April 20, 1999	ABANDONED

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: P. Louis Myers, Reg. No. 35,965; Timothy A. French, Reg. No. 30,175; and Ivana Maravic-Magovcevic, Reg. No. 43,338.

Address all telephone calls to P. Louis Myers at telephone number 617/542-5070.

Address all correspondence to P. Louis Myers, Fish & Richardson P.C., 225 Franklin Street, Boston, MA 02110-2804.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full Name of Inventor: Allan M. Miller

Inventor's Signature: Allan M. Miller Date: December 17, 1999

Residence Address: 84 Herrick Road, Boxford, MA 02921

Citizen of: United States of America

COMBINED DECLARATION AND POWER OF ATTORNEY CONTINUED

Full Name of Inventor: Douglas A. Treco

Inventor's Signature: Douglas A. Treco Date: November 17, 1976

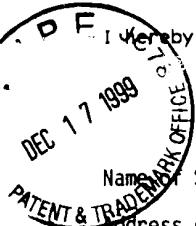
Residence Address: 87 Brantwood Road, Arlington, MA 02174
02176

Citizen of: United States of America

Post Office Address: 87 Brantwood Road, Arlington, MA 02174
02176

Applicant or Patentee: Allan Miller et al.
 Serial or Patent No.: 60/130,241
 Filed or Issued: April 20, 1999
 For: OPTIMIZED MESSENGER RNA

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
 (37 CFR 1.9(f) and 1.27(c)) - SMALL BUSINESS CONCERN



I hereby declare that I am

the owner of the small business concern identified below:
 an official of the small business concern empowered to act on behalf of the concern identified below:

Name of Small Business Concern: Transkaryotic Therapies, Inc.

Address of Small Business Concern: 195 Albany Street, Cambridge, MA 02139

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled OPTIMIZED MESSENGER RNA by inventors Allan M. Miller, Douglas A. Treco, and Richard F Selden (no period after the "F") described in

the specification filed herewith.
 application serial no. 60/130,241 filed April 20, 1999.
 patent no. , issued .

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e). NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

Full Name: _____

Address: _____

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status when any new rule 53 application is filed or prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent on which this verified statement is directed.

Name: Richard F Selden

Title: President and Chief Executive Officer

Address: Transkaryotic Therapies, Inc., 195 Albany Street, Cambridge, MA 02139

Signature: R. F. Selden Date: 6/26/99

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